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| NEW UTILITY PATENT APPLICATION TRANSMITTAL <small>(only for new nonprovisional applications under 37 CFR 1.53(b))</small> | | Attorney Docket Number 18922-08585 | |
| | | First Named Inventor Heidi E. Dixon <i>et al.</i> | |
| | | Title DATABASE MANIPULATIONS USING GROUP THEORY | |
| | | Express Mail Label No. EV301186619US | |

| APPLICATION ELEMENTS | ACCOMPANYING APPLICATION PARTS |
|---|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Fee Transmittal Form (in duplicate) 2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 3. <input checked="" type="checkbox"/> Specification Total Pages 96 <small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Descriptive Title of the Invention <input checked="" type="checkbox"/> Cross Reference(s) to Related Case(s) <input checked="" type="checkbox"/> Statement Regarding Fed sponsored R & D <input checked="" type="checkbox"/> Background of the Invention <input checked="" type="checkbox"/> Brief Summary of the Invention <input checked="" type="checkbox"/> Brief Description of the Drawing(s) <input checked="" type="checkbox"/> Detailed Description <input checked="" type="checkbox"/> Claim or Claims <input checked="" type="checkbox"/> Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) Total Sheets 11 5. Oath or Declaration <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> New Declaration Total Pages 3 <input checked="" type="checkbox"/> Executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 18 completed)</small> <ol style="list-style-type: none"> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 | <ol style="list-style-type: none"> 7. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) 8. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small> 9. <input type="checkbox"/> Power of Attorney or Authorization of Agent 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement 11. <input type="checkbox"/> Preliminary Amendment 12. <input type="checkbox"/> Information Disclosure Statement & PTO-1449 <input type="checkbox"/> Copies of IDS Citation(s) 13. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122 <small>(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent</small> 14. <input checked="" type="checkbox"/> Return Postcard 15. <input type="checkbox"/> _____ 16. <input type="checkbox"/> _____ 17. <input type="checkbox"/> _____ |

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| 18. If a CONTINUING APPLICATION , check appropriate box and supply the requisite information below and in a preliminary amendment or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No: ____/____ Prior application information: Examiner: _____ Group/Art Unit: _____ For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuing or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. |
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| 19. CORRESPONDENCE ADDRESS | |
| <input checked="" type="checkbox"/> Customer Number | 00758 |

| | | | |
|-------------------|------------------|-----------------------------------|------------------|
| Name (Print/Type) | Brian M. Hoffman | Registration No. (Attorney/Agent) | 39,713 |
| Signature | | Date | February 5, 2004 |

FEE TRANSMITTAL for FY 2004

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT (\$)** 551.00**Complete if Known**

| | |
|----------------------|-----------------------|
| Application Number | NEW |
| Filing Date | HEREWITH |
| First Named Inventor | Heidi E. Dixon et al. |
| Examiner Name | UNASSIGNED |
| Art Unit | UNASSIGNED |
| Attorney Docket No. | 18922-08585 |

METHOD OF PAYMENT (check all that apply)
☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None
☐ Deposit Account:

Deposit Account Number 19-2555

Deposit Account Name Fenwick & West LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge all required fee(s) or any underpayment of fee(s) due under 37 CFR §1.16 or §1.17 during the pendency of this application.
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.
FEE CALCULATION**1. BASIC FILING FEE**

Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description | Fee Paid |
|---------------------|----------|----------|----------|------------------------|-----------------|
| 1001 | 770 | 2001 | 385 | Utility filing fee | 385 |
| 1002 | 340 | 2002 | 170 | Design filing fee | |
| 1003 | 530 | 2003 | 265 | Plant filing fee | |
| 1004 | 770 | 2004 | 385 | Reissue filing fee | |
| 1005 | 160 | 2005 | 80 | Provisional filing fee | |
| SUBTOTAL (1) | | | | | (\$) 385 |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | (OR # Prev. Paid For) | Extra Claims | Fee from below | Fee Paid |
|--------------------|-----------------------------|-----------------|-------------------|----------|
| Total Claims | 34 | -20**= | 14 | 9 |
| Independent Claims | 3 | -3**= | 0 | 43 |
| Multiple Dependent | | | | |

Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description |
|---------------------|----------|----------|----------|---|
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 86 | 2201 | 43 | Independent claims in excess of 3 |
| 1203 | 290 | 2203 | 145 | Multiple dependent claim, if not paid |
| 1204 | 86 | 2204 | 43 | **Reissue independent claims over original patent |
| 1205 | 18 | 2205 | 9 | **Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) | | | | |

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) |
|----------|----------|----------|----------|
| 1051 | 130 | 2051 | 65 |
| 1052 | 50 | 2052 | 25 |
| 1053 | 130 | 1053 | 130 |
| 1812 | 2,520 | 1812 | 2,520 |
| 1804 | 920* | 1804 | 920* |
| 1805 | 1,840* | 1805 | 1,840* |
| 1251 | 110 | 2251 | 55 |
| 1252 | 420 | 2252 | 210 |
| 1253 | 950 | 2253 | 475 |
| 1254 | 1,480 | 2254 | 740 |
| 1255 | 2,010 | 2255 | 1,005 |
| 1401 | 330 | 2401 | 165 |
| 1402 | 330 | 2402 | 165 |
| 1403 | 290 | 2403 | 145 |
| 1451 | 1,510 | 1451 | 1,510 |
| 1452 | 110 | 2452 | 55 |
| 1453 | 1,330 | 2453 | 665 |
| 1501 | 1,330 | 2501 | 665 |
| 1502 | 480 | 2502 | 240 |
| 1503 | 640 | 2503 | 320 |
| 1460 | 130 | 1460 | 130 |
| 1807 | 50 | 1807 | 50 |
| 1806 | 180 | 1806 | 180 |
| 8021 | 40 | 8021 | 40 |
| 1809 | 770 | 2809 | 385 |
| 1810 | 770 | 2810 | 385 |
| 1801 | 770 | 2801 | 385 |
| 1802 | 900 | 1802 | 900 |

Fee Description

Fee Paid

Surcharge - late filing fee or oath

Surcharge - late provisional filing fee or cover sheet

Non-English specification

For filing a request for *ex parte* reexamination

Requesting publication of SIR prior to Examiner action

Requesting publication of SIR after Examiner action

Extension for reply within first month

Extension for reply within second month

Extension for reply within third month

Extension for reply within fourth month

Extension for reply within fifth month

Notice of Appeal

Filing a brief in support of an appeal

Request for oral hearing

Petition to institute a public use proceeding

Petition to revive - unavoidable

Petition to revive - unintentional

Utility issue fee (or reissue)

Design issue fee

Plant issue fee

Petitions to the Commissioner

Processing fee under 37 CFR 1.17(g)

Submission of Information Disclosure Stmt

Recording each patent assignment per property (times number of properties)

Filing a submission after final rejection (37 CFR 1.129(a))

For each additional invention to be examined (37 CFR 1.129(b))

Request for Continued Examination (RCE)

Request for expedited examination of a design application

40

Other fee (specify) _____

SUBTOTAL (3) (\$)

*Reduced by Basic Filing Fee Paid

SUBMITTED BY

Name (Print/Type)

Brian M. Hoffman

Registration No.
(Attorney/Agent)

39,713

Complete (if applicable)

Telephone (415) 875-2484

Signature

Date

February 5, 2004